Using hunspell as back end in spellchecker.php

spellchecker.php supports aspell which supports a limited number of languages on our system. The system provides hunspell which supports quite a number of languages. Thus we tried to configure spellchecking.php to use hunspell.

This turned out to be quite easy and a patch is attached for reference. Adaption to other languages can be made by configuring the $lang variable, using the list of supported languages in hunspell, e.g. ‘hunspell -D’

Now our users can engage the spell checking against three languages.

Tested on CentOS7 with chamilo-1.9.8.2 and hunspell and hunspell-{en-GB,en-US,fo,-da} installed.

This could be included in an upcoming version of Chamilo or fckeditor

--- spellchecker.php.000 2014-11-11 12:45:14.118874378 +0000
+++ spellchecker.php 2014-11-11 14:08:17.410110124 +0000
@@ -3,11 +3,17 @@
 // The following variables values must reflect your installation needs.
 -$aspell_prog = '"C:\Program Files\Aspell\bin\aspell.exe"';  // by FredCK (for Windows)
 +$aspell_prog = '"C:\Program Files\Aspell\bin\aspell.exe"';  // by FredCK (for Windows)
 // $aspell_prog = 'aspell';  // by FredCK (for Linux)
 +$aspell_prog = '/usr/bin/aspell';
 +$aspell_prog = '/usr/bin/hunspell';  // torkil for hunspell
 -$lang = 'en_US';
 -$aspell_opts = "--lang=$lang --encoding=utf-8 --rem-sgml-check=alt";  // by FredCK
 +"$lang" = 'en_US';
 +$lang = 'fo_FO,da_DK,en_GB';  // torkil for hunspell
 +$aspell_opts = "--lang=$lang --encoding=utf-8 --rem-sgml-check=alt";  // by FredCK
 +$aspell_opts = "-a -d $lang -i utf-8 -H ";  // torkil for hunspell
 $tempfiledir = "./";

Associated revisions
Revision 3587db21 - 17/11/2014 16:45 - Julio Montoya
Adding aspell settings see #7388

Revision 14072214 - 22/11/2014 18:36 - Yannick Warnier
Remove unnecessary aspell_lang setting and default to en_US - refs #7388

#1 - 11/11/2014 16:31 - Torkil Zachariassen
Pardon - the patch file was misformatted somehow. This should do the trick:

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 +$aspell_opts = "--lang=$lang --encoding=utf-8 --rem-sgml-check=alt";  // by FredCK
 +$aspell_opts = "-a -d $lang -i utf-8 -H ";  // torkil for hunspell
 $tempfiledir = "./";

#2 - 17/11/2014 16:47 - Julio Montoya
I just added those options as a configurations settings in configuration.php:
For example:

$_configuration['aspell_bin'] = '/usr/bin/hunspell';
$_configuration['aspell_lang'] = 'en_US';
$_configuration['aspell_opts'] = '-a --lang=$lang --encoding=utf-8 --rem-sgml-check=alt';
$_configuration['aspell_temp_dir'] = './';

See:
https://github.com/chamilo/chamilo-lms/commit/3587db2180ba30b303834f06da51f443fa067051d

#3 - 17/11/2014 17:42 - Yannick Warnier
- % Done changed from 100 to 90
torkil, please try it locally (from Github repository) and let us know if that works for you, as we cannot close it until someone can approve it (and you are in a nice position to approve it)

#4 - 20/11/2014 20:18 - Torkil Zachariassen
Yannick, while using the solution from GitHub the errorlog trows the following error. It seems like we are missing the function 'api_get_configuration_value()' here.

```bash
```

#5 - 20/11/2014 20:39 - Yannick Warnier
Hi Torkil,
Sadly, we cannot (easily) fix that for your test, as this means there is a dependency on a function that was created after 1.9.8.2 and before 1.9.10. That's why you don't have it.

If you want, you can temporarily add the function at the end of your main/inc/lib/main_api.lib.php file. It's quite short:

```php
/** *
 * @param string $variable
 * @return bool|mixed
 */
function api_get_configuration_value($variable)
{
    global $_configuration;
    if (isset($_configuration[$variable])) {
        return $_configuration[$variable];
    }
    return false;
}
```

Then reload the page where the error appears. It should be fixed and let you test the integration with hunspell

#6 - 20/11/2014 22:45 - Torkil Zachariassen
Appended the missing function to main_api.lib.php, and installed spellchecker.php from github.
As hunspell does not understand long options the configuration (aspell_opts) has to change a bit.
The lang option works in aspell only.
Here is what works for me using three languages simultaneously

```php
/** *
 * Aspell Settings for hunspell
 */
$_configuration['aspell_bin'] = '/usr/bin/hunspell';
$_configuration['aspell_lang'] = 'en_US'; // aspell option only
//$_configuration['aspell_opts'] = '-a --lang=$lang --encoding=utf-8 -H --rem-sgml-check=alt'; // aspell options
$_configuration['aspell_opts'] = '-a -d fo_FO,da_DK,en_GB -H -i utf-8'; // hunspell options
$_configuration['aspell_temp_dir'] = './';
```
#7 - 21/11/2014 02:13 - Yannick Warnier
- Assignee set to Julio Montoya

#8 - 21/11/2014 08:23 - Julio Montoya
- Assignee deleted (Julio Montoya)

I just updated that recommendation setting.

https://github.com/chamilo/chamilo-lms/commit/6fd395dc4605bb7fd45db42bc6ea70ed93d5adf8

#9 - 21/11/2014 10:44 - Torkil Zachariassen
As language is selected in the '-d' option to hunspell, you might want to remove

```php
$_configuration['aspell_lang'] = 'en_US';
```

The rest works for me.

#10 - 22/11/2014 18:39 - Yannick Warnier
- Status changed from Needs testing to Feature implemented
- Assignee set to Julio Montoya
- % Done changed from 90 to 100

Setting removed and defaulted to en_US.

Thanks!

#11 - 23/11/2014 16:55 - Torkil Zachariassen

Thank you.

Files